

REMARKS

The Examiner's Action mailed on December 15, 2005, has been received and its contents carefully considered. In this Amendment, Applicants have amended claims 1, 8 and 14, added claim 17, amended the specification, and added Figure 4. Claims 1, 8 and 14 are the independent claims. Claims 1-17 are pending in the application. For at least the following reasons, it is submitted that this application is in condition for allowance.

The drawings have been objected to because the detail of the heat dissipating channels 31d is not shown in the drawing. In response thereto, the Applicants have added a Figure 4 which illustrates a perspective view of the extruded metallic extruded carrier 31, showing the detail of the heat dissipating channels 31d. A brief description of this Figure has been added to the specification for consistency. It is therefore submitted that this objection should be withdrawn.

The Examiner has rejected claims 1 and 5-7 under 35 U.S.C. 102(e) as being anticipated by *Hsieh et al.* (US 6,880,947). Claim 1 has been amended. It is submitted that these claims are patentably distinguishable over the cited reference for at least the following reasons.

Applicants' amended independent claim 1 recites a backlight module comprising at least an extruded metallic carrier and a light source. The extruded metallic carrier has a top-face, an accommodation sink being formed in the top-face, and **a plurality of heat-dissipating channels disposed therein**. The light source is deposited in the accommodation sink.

In contrast, *Heish et al.* disclose that a backlight unit 50 has a diffusion film 16, a reflection plate 58, and a plurality of lamps 14. The lamps 14 are arranged in a first chamber 60 defined by the diffusion film 16 and the reflection plate 58 (Col 3, lines 49-52 & FIG. 8). A heat-dissipating plate 59 is interposed between the reflection plate 58 and the housing 54 and defines a second chamber 70 with the reflection plate 58 (Col. 3, lines 60-62). The bottom of the heat-dissipating plate 59 is attached to the housing 54 and is pressed to form a fin structure 59b (Col. 4, lines 48-50 & FIG. 8).

Heish et al. fail to disclose that the extruded metallic carrier has a plurality of **heat-dissipating channels disposed therein**, as recited in claim 1. Instead, *Heish et al.* disclose that the fin structure 59b, considered by the Examiner as being heat-dissipating channels, is a puckered or wrinkled part of the heat-dissipating plate 59. It is noted that the furrows and ridges of the fin structure 59b are formed along the surface of the heat-dissipating plate 59. That clearly contrasts with the claimed invention in which heat-dissipating channels are disposed in the extruded metallic carrier.

It is therefore submitted that Applicant's independent claim 1, as well as the claims 2-7 dependent therefrom, are not anticipated by (or rendered obvious by) the cited reference. As such, the rejection should be withdrawn.

Claims 2-4 and 8-16 have been rejected under 35 U.S.C. 103(a) as being unpatentable over *Heish et al.* (US 6,880,947). Independent claims 8 and 14 have been amended and include limitations of the extruded metallic carrier similar to those of claim 1. It is submitted that claims 2-4, dependent from claim 1,

independent claim 8 as well as its dependant claims 9-13, and independent claim 14 as well as its dependent claims 15-16, are patentable over the applied reference for at least the same reasons that the independent claim 1 is patentable, as well as for the additional features recited therein.

For example, the Examiner alleged that the *Heish et al.* disclose a reflector sheet deposited in the accommodation sink (of the aluminum extrusion carrier). However, *Heish et al.* disclose the heat dissipating plate 59 (considered by the Examiner as being an aluminum extrusion carrier) defines a second chamber 70 with the reflection plate 58 (Col. 2, lines 62-64). That is, there is a gap existing between the reflection plate 58 and heat dissipating plate 59. This contrasts with the claimed invention in which a reflector sheet is deposited in the accommodation sink, as recited in claim 14, without any chamber existing between the aluminum extrusion carrier and the reflector sheet.

Moreover, *Heish et al.* disclose that the reflection plate 58, considered by the Examiner as being a reflector sheet, has a plurality of first convection holes 62a formed on the horizontal bottom surface 58a, and a plurality of second convection holes 64 formed on the inclined side surface 58b (Col. 4, lines 3-7). Heat generated by the lamps 14 can be transferred to the second chamber 70 from the first chamber 60 through the first convection holes 62a. The heat transferred to the second chamber 70 is then transferred to the heat-dissipating plate 59 (Col. 4, lines 11-13). The distance between the reflection plate 58 and the underlying heat-dissipating plate 59 may be in a range from a few millimeters to several centimeters (Col. 4, lines 20-23). Thus, *Heish et al.* teach that the reflection plate

58 has convection holes 62a and 64 as a gate between the first chamber 60 and second chamber 70 for air convection, and air convection will not occur without the convection holes and second chamber 70. *Heish et al.* therefore teach away from a reflector sheet being deposited in the accommodation sink, without a chamber existing therebetween, since it will lose the function of air convection. It is therefore submitted that Applicant's independent claim 14, as well as the claims 15-16 dependent therefrom, are not anticipated by (or rendered obvious by) the cited reference.

Based on the above, it is submitted that the application is in condition for allowance and such a Notice, with allowed claims 1-17 earnestly solicited.

Should the Examiner feel that a conference would help to expedite the prosecution of the application, the Examiner is hereby invited to contact the undersigned counsel to arrange for such an interview.

Should any fee be required, the Commissioner is hereby authorized to charge the fee to our Deposit Account No. 18-0002, and advise us accordingly.

Respectfully submitted,



Robert H. Berdo, Jr. – Reg. No. 38,075
RABIN & BERDO, PC – Cust. No. 23995
Facsimile: 202-408-0924; 202-408-5297
Telephone: 202-371-8976

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Date

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